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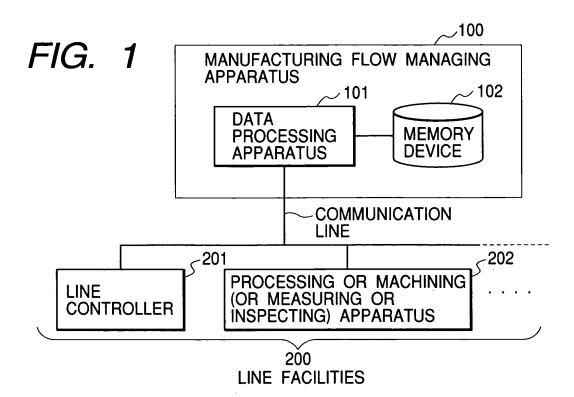


FIG. 2

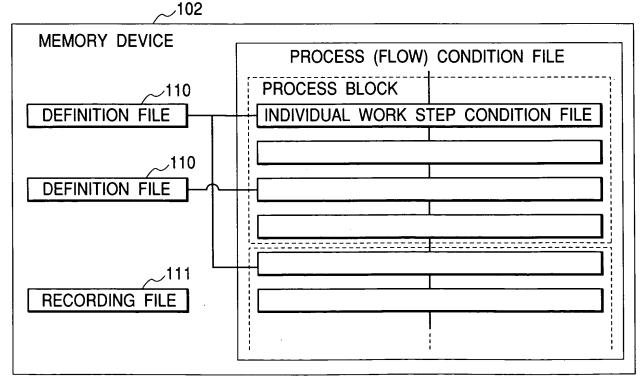
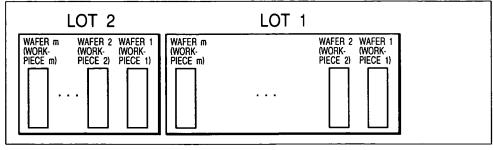
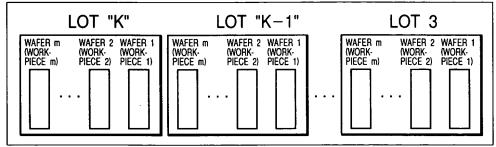


FIG. 3

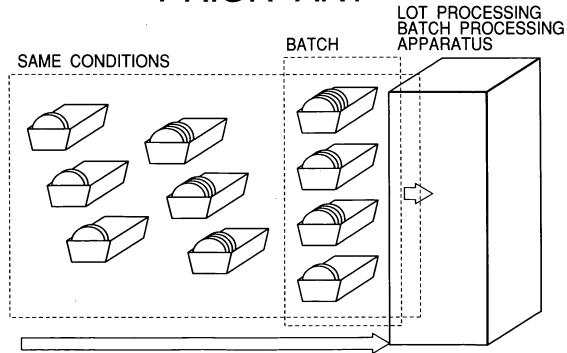


CARRIER: 001 (SHIP: 001)

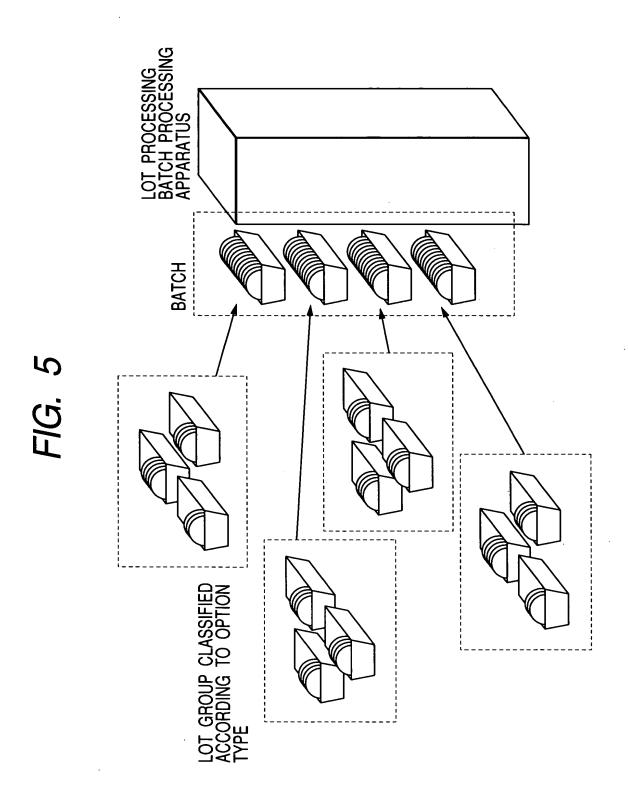


CARRIER: 002 (SHIP: 002)

FIG. 4 PRIOR ART



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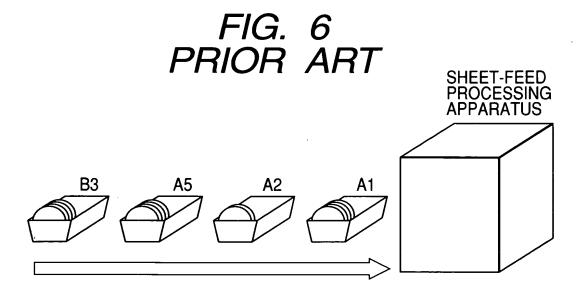


FIG. 7

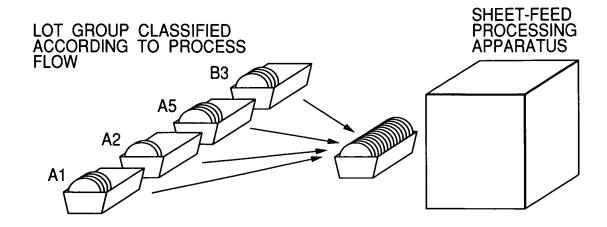


FIG. 8

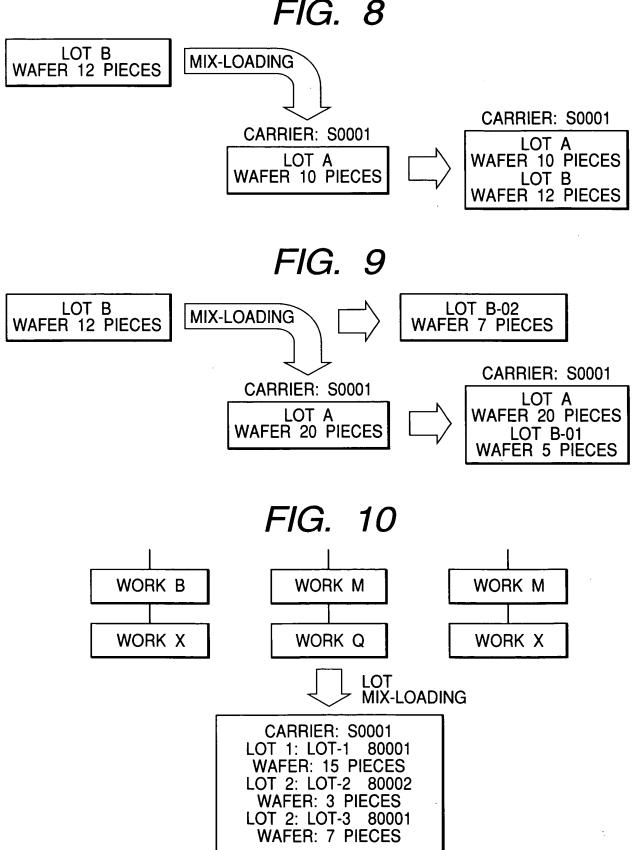
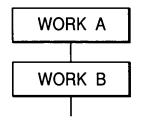


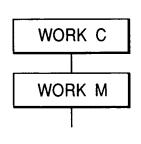
FIG. 11

CARRIER: S0001 LOT 1: LOT-1 80001 WAFER: 15 PIECES LOT 2: LOT-2 80002 WAFER: 3 PIECES LOT 2: LOT-3 80001 WAFER: 7 PIECES



CARRIER: S0001 LOT: LOT-1 80001 WAFER: 15 PIECES CARRIER: S0002 LOT: LOT-2 80002 WAFER: 3 PIECES CARRIER: S0003 LOT: LOT-3 80001 WAFER: 7 PIECES





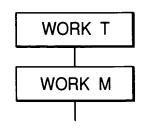


FIG. 12

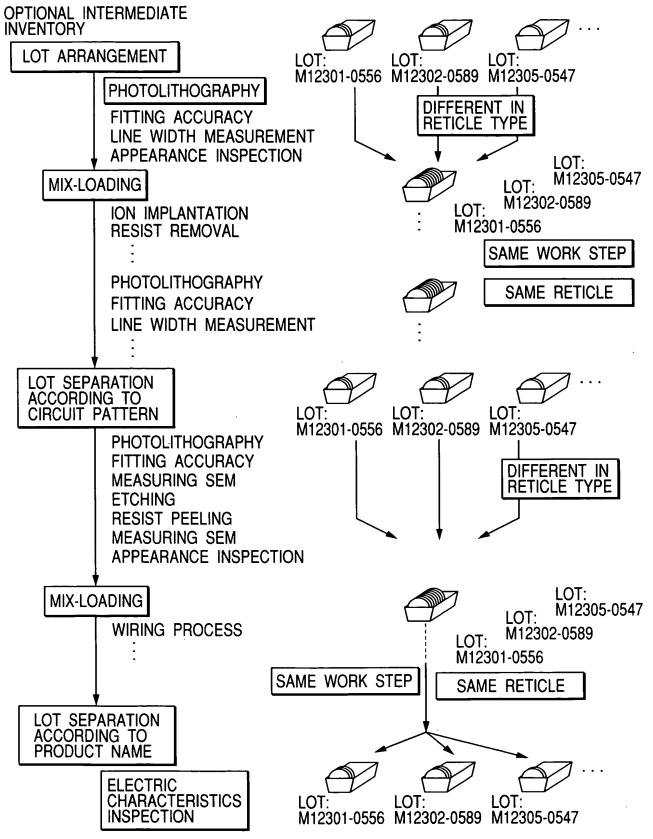


FIG. 13

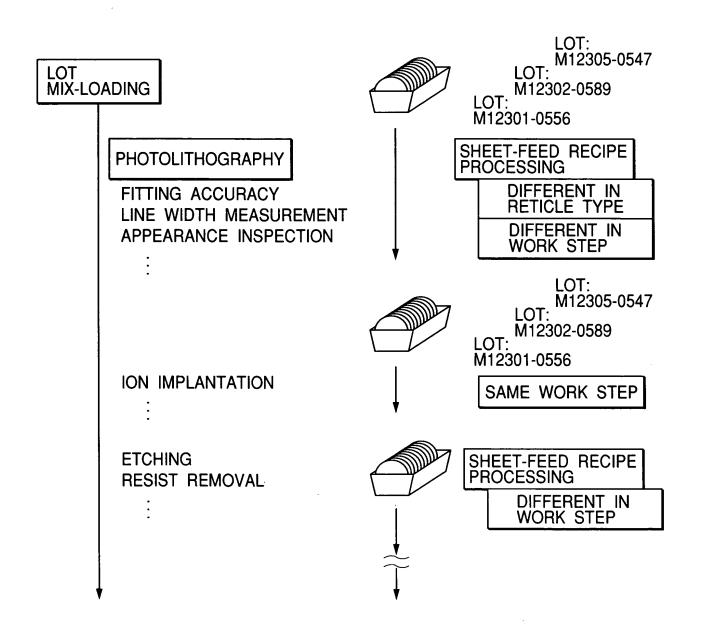


FIG. 14

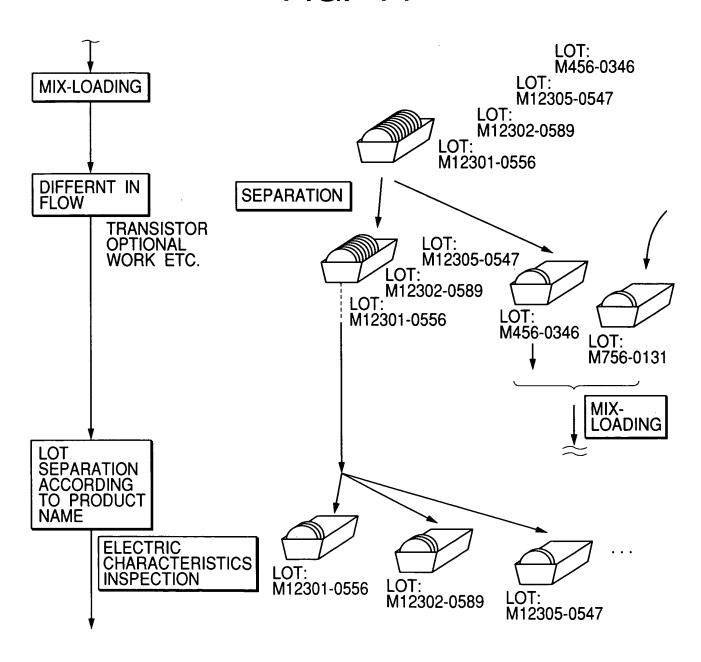


FIG. 15

NEW SYSTEM

CARRIER	LOT	
S0123	MZ12301-0156	
S0123	MZ12301-0154	
S0123	MZ12303-0159	
S0123	MZ12309-0140	

OLD SYSTEM

CARRIER	LOT	
S0123	MZ12301-0156	
#0001	MZ12301-0154	
#0002	MZ12303-0159	
#0003	MZ12309-0140	1

VIRTUAL CARRIERS USABLE IN SYSTEM

WORKPIECE LOADING RATE %0.00 92.9% 93.7% 83.6% 96.4% %0.00 95.1% 77.3% % 98.1% %0.001 % % 97.3% MIX-LOADING IN BOTH SAME AND DIFFERENT WORK STEP CONDITIONS 8 8 LOADED WORKPIECE NUMBER/ CARRIER 24.5 25.0 23.2 20.9 9.0 24.3 25.0 23.8 19.3 22.4 25.0 24.1 22 ಣ PRODUCTION WORKPIECE RATE 2.4% 3.5% 7.1% 2.5% 6.3% 6.2% 14.3% 13.1% 18.6% 13.0% 5.3% 5.6% 00:00 % Workpiece Loading Rate 100.0% 98.1% 100.0% % 93.1% %9.06 91.1% 77.3% % % 92.9% 85.7% 83.6% 00.00 % ည် છું MIX-LOADING ONLY IN SAME WORK STEP CONDITIONS LOADED WORKPIECE NUMBER/ CARRIER 23.3 22.6 25.0 22.8 19.3 20.0 24.5 25.0 23.2 21.4 တ Ki Ki 8 တ 7 PRODUCTION WORKPIECE RATE 100.0% 7.1% 6.2% 14.3% 13.1% 18.6% 13.0% 2.4% 5.3% 5.6% 2.2% 3.5% 2.5% 6.3% WORKPIECE LOADING RATE 98.1% .5% 11.4% 83.6% 11.2% 14.4% 00.0% 77.3% 10.5% 100.0% 00.00 92.9% 79.6% 48.6% 27 CONVENTIONAL LOADED WORKPIECE NUMBER/ CARRIER 25.0 19.3 24.5 25.0 2.6 6.9 ∞ 헏 ഗ്ഗ് ಣ ജ് <u>ත</u> Production Workpiece Rate %0.001 13.1% 13.0% 2.4% 5.3% 5.6% 2.2% 3.5% 2.5% 6.3% 6.2% 14.3% 8.6% PROCESS FLOW GROUP 1ST HALF PROCESS FLOW GROUP 2ND HALF GROUP PROCESS FLOW GROUP 2ND HALF PROCESS FLOW GROUP 1ST HALF PROCESS FLOW GROUP 1ST HALF PROCESS FLOW GROUP 1ST HALF PROCESS FLOW GROUP 2ND HALF PROCESS FLOW GROUP 1ST HALF PROCESS FLOW GROUP 2ND HALF FLOW GROUP PROCESS FLOW GROUP FLOW GROUP FLOW PROCESS F 2ND HALF **PROCESS PROCESS** ENTIRETY

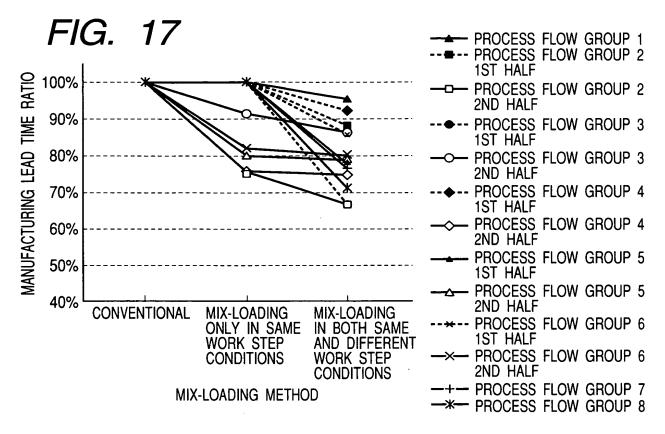
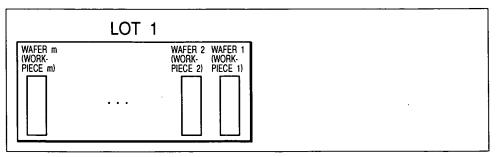


FIG. 18 PRIOR ART



CARRIER: 001 LOT 1

LOT 2		
WAFER m WAFER 2 WAFER 1 (WORK- (WORK- PIECE m) PIECE 2) PIECE 1)		

CARRIER: 002 LOT 2